Subsurface Investigation Report of Findings

PALCO Company Garage Scotia, California Case No. 12272

Prepared for:

PALCO

Reference: 089097.120

April 14, 2006

Mr. Mark Verhey Humboldt County Division of Environmental Health 100 H Street, Suite 100 Eureka, CA 95501

Subject:

Subsurface Investigation Report of Findings PALCO Company Garage,

Scotia, California; Case No. 12272

Dear Mr. Verhey:

This report is presented by SHN Consulting Engineers & Geologists, Inc. (SHN) on behalf and with the approval of PALCO. Included in the report are the results of the subsurface investigation at the PALCO Company Garage Underground Storage Tank site, performed in March 2006, in compliance with the SHN February 22, 2006 letter schedule of PALCO proposed work tasks provided to your office.

Please don't hesitate to contact me if you have any questions.

Sincerely,

SHN Consulting Engineers & Geologists, Inc.

Martin E. Lay, P.E. Project Manager

MEL/RMR:lms

Enclosure:

Report

copy w/encl:

Robert Vogt, PALCO

Kasey Ashley, RWQCB, North Coast Region

Reference: 089097.120

Subsurface Investigation Report of Findings

PALCO Company Garage Scotia, California Case No. 12272

Prepared for:

PALCO

Prepared by:

Consulting Engineers & Geologists, Inc. 812 W. Wabash Eureka, CA 95501-2138 707/441-8855

April 2006

QA/QC: MEL___



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Abbreviations and Acronyms

denotes a value that is "less than" the method detection limit.

ug/g micrograms per gram ug/L micrograms per Liter

ASTM American Society for Testing and Materials

B-# Boring-number/well point-number

BGS Below Ground Surface

BTEX Benzene, Toluene, Ethylbenzene, and total Xylenes EPA United States Environmental Protection Agency HCDEH Humboldt County Division of Environmental Health

MTBE Methyl Tertiary-Butyl Ether

MW-# Monitoring Well-#

NGVD29 National Geodetic Vertical Datum 1929

PVC Polyvinyl Chloride RAP Remedial Action Plan RAWP Remedial Action Work Plan ROWD Report of Waste Discharge

RWQCB California Regional Water Quality Control Board, North Coast Region

SHN SHN Consulting Engineers & Geologists, Inc.
TPHD Total Petroleum Hydrocarbons as Diesel
TPHG Total Petroleum Hydrocarbons as Gasoline
TPHMO Total Petroleum Hydrocarbons as Motor Oil

UST Underground Storage Tank

1.0 Introduction

SHN Consulting Engineers & Geologists, Inc. (SHN) was retained by PALCO to conduct an additional subsurface investigation at the PALCO Company Garage in Scotia, California. This report describes the field activities for the soil and groundwater sampling at the site. This work was requested by the Humboldt County Division of Environmental Health (HCDEH). This report is the culmination of the work described and agreed upon by representatives of PALCO, SHN, and the HCDEH.

The information in this report is presented in 5 sections. This section serves as an introduction and describes the site history and conditions, and discusses the objectives of the investigation. Section 2.0 describes the field program for the monitoring well sampling. Section 3.0 presents the results of the groundwater monitoring, and Section 4.0 presents a discussion of the findings and provides recommendations. Section 5.0 lists cited references.

1.1 Vicinity Information

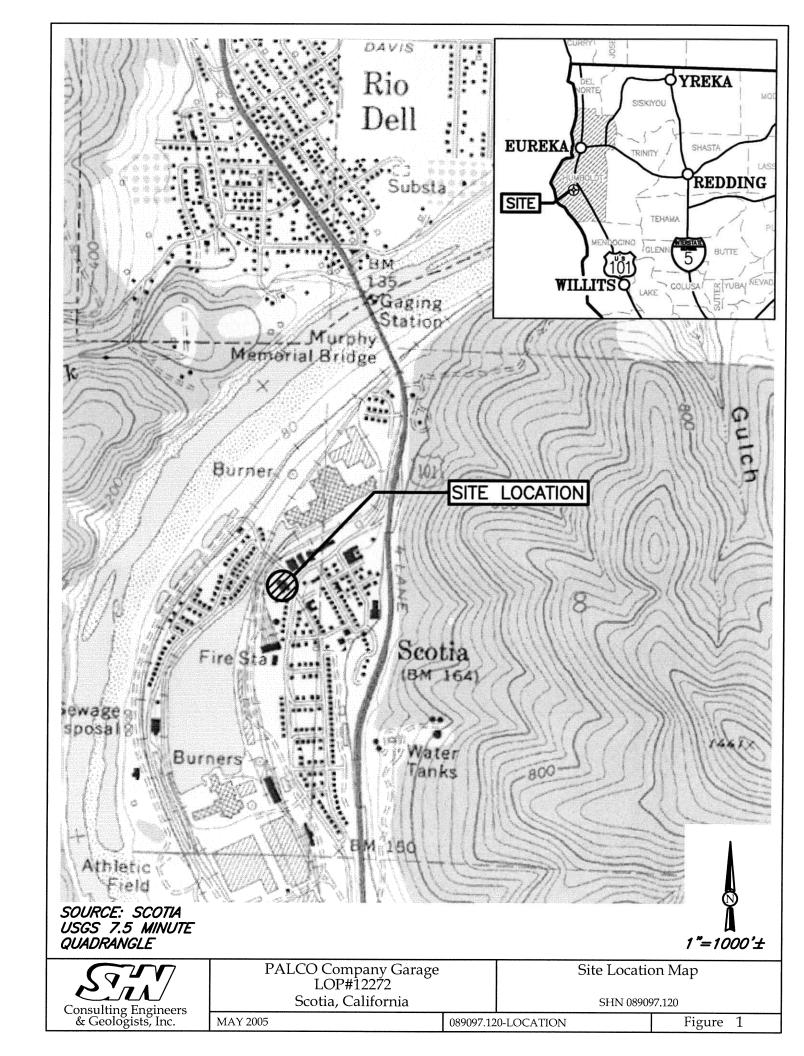
The PALCO Company Garage site is located at the northeastern corner of the intersection of Main and Bridge Streets, in the town of Scotia, Humboldt County, California (Assessor's Parcel Number 205-351-16). The Company Garage (Case No. 12272) and former Service Station (Ademar's Chevron, Case No. 12273) are part of the same facility. The entire site lies within the northeast ¼ of Section 7, Township 1 North, Range 1 East, Humboldt Base and Meridian (Figure 1).

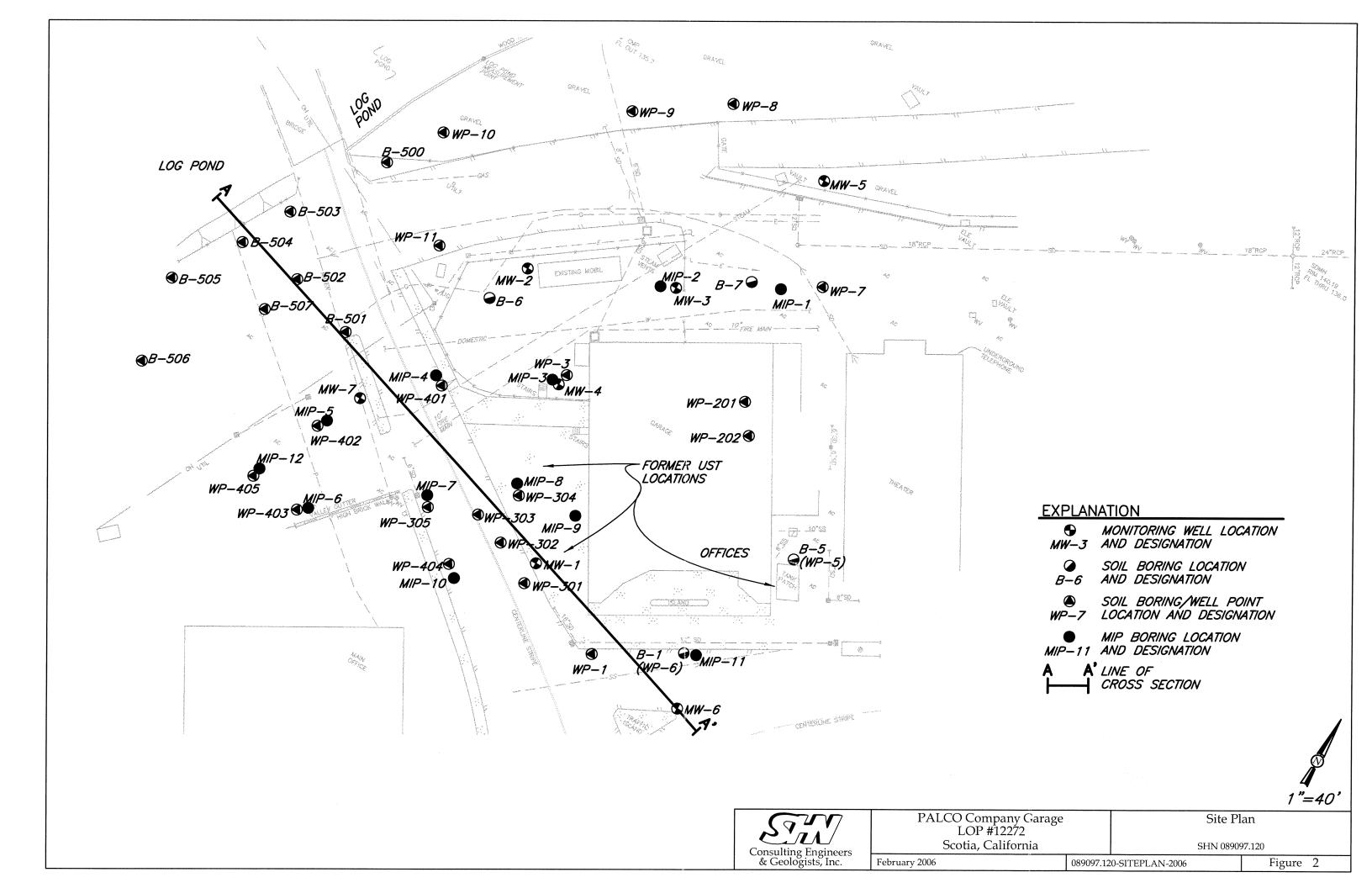
1.2 Site History

The existing Company Garage building was historically used for vehicle and equipment service and repair. Five Underground Storage Tanks (USTs) were formerly located at the facility (Figure 2). A 12,000-gallon unleaded gasoline UST was installed in 1974; a 1,500-gallon diesel UST, and a 1,000-gallon leaded gasoline UST were installed in 1959; a 1,000-gallon premium unleaded gasoline UST was installed in 1972; and, a 1,000-gallon unleaded gasoline UST was installed at the facility in 1975.

On June 6, 1991, the 1,000-gallon leaded gasoline UST was removed under permit from the southeast corner of the Company Garage site. On July 27, 1998, SHN and the HCDEH observed the removal of the remaining USTs. Minimal over-excavation of soil was completed in the northernmost tank pit, which previously contained the 12,000-gallon UST. Over-excavation of contaminated soil from around the southern-most tank pits was also conducted. The tank pit locations were subsequently backfilled, and the surface was paved with asphalt concrete as directed by PALCO. Approximately 120 cubic yards of excavated soil were temporarily stockpiled on site, under permit, and in November 1999, were transported under manifest to Ben's Truck and Equipment Incorporated, located in Red Bluff, California, for disposal by bioremediation.

SHN conducted an initial subsurface soil and groundwater investigation at the Company Garage site in December 1999, which included the advancement of 12 exploratory borings (including 6 temporary well points using direct push methodology), and the installation of three, 2-inch monitoring wells (MW-1, MW-2, and MW-3). Soil and groundwater samples were collected, and analyzed, and the results of the investigation were reported in our December 1999 Subsurface Investigation Report of Findings (SHN, 2000).





The HCDEH responded, by letter dated March 23, 2000, to SHN's December 1999 report of findings. One item requested by the HCDEH was that PALCO submit a work plan to further delineate and characterize the extent of soil and groundwater contamination at the site. SHN, on behalf of PALCO, submitted the requested work plan to the HCDEH on June 12, 2000. PALCO received formal written comments relative to the work plan from the HCDEH in a letter dated August 10, 2000.

PALCO, in conformance with the modified June 12, 2000, work plan and under permit from the HCDEH, authorized SHN to complete the additional subsurface investigation and the installation of a new groundwater-monitoring well (MW-4), which occurred on November 8 and 9, 2000. Soil and groundwater samples were collected, analyzed, and the results were reported in our November 2000 Site Investigation Report of Findings (SHN, January 2001).

On May 3, 2001, representatives from PALCO, HCDEH, and SHN met to discuss the findings of the November 2000 subsurface investigation, clarify outstanding contaminant fate issues that were previously raised by HCDEH, and formulate a course of action for ongoing site investigation and monitoring. SHN submitted a meeting memorandum of understanding dated May 9, 2001, which was acknowledged by the HCDEH in their May 15, 2001, letter. The consensus that was reached at the meeting was to continue monitoring the existing wells for an additional dry and wet season, and, using the data collected, determine conditions for site closure or further investigation.

PALCO and HCDEH representatives attended an additional meeting with SHN on March 7, 2002, for the purpose of discussing the year 2001 monitoring data and requirements, and alternatives for expediting site closure. The meeting minutes were submitted by SHN in an April 3, 2002 letter to the HCDEH. On April 29, 2002, SHN submitted a letter to the HCDEH, addressing the five tasks that were outlined in our April 3, 2002 letter.

By letter dated October 24, 2002, the Regional Water Quality Control Board (RWQCB) concurred with SHN's September 25, 2002 request to reduce the monitoring well sampling frequency and reporting to annual in March.

On March 6, 2003, PALCO submitted a Remedial Action Feasibility Study to the HCDEH for their review and comment. HCDEH concurred, by letter dated April 14, 2003, with the feasibility proposal of using hydrogen peroxide for the remedial action, and requested a Remedial Action Plan (RAP).

On June 9, 2003, PALCO submitted the RAP. HCDEH conditionally concurred with the RAP by letter dated July 16, 2003, requested clarifications, and authorized the proposed pilot study.

RAP clarification items were submitted by PALCO to HCDEH on September 5, 2003. HCDEH commented on clarification items by letter dated October 9, 2003.

PALCO responded to HCDEH comments by letter dated November 13, 2003. On December 24, 2003, PALCO submitted to HCDEH the project Remedial Action Work Plan (RAWP).

On January 8, 2004, PALCO submitted the application and documents for the project Report of Waste Discharge (ROWD) to the RWQCB.

HCDEH commented on the RAWP by letter dated February 17, 2004. On February 24, 2004, the RWQCB commented by letter to the ROWD. PALCO responded to the RWQCB with Addendum No. 1, dated April 14, 2004, to the ROWD.

On September 23 and 24, 2004, SHN supervised Fisch Environmental of Valley Springs, California in the installation of 12 membrane interface probe borings and five soil borings/temporary well points. Results were presented in the Report of Findings for Additional Site Investigation (SHN, December 2004).

On March 4, 2005, SHN supervised Fisch Environmental in the advancement of one soil boring and subsequent groundwater monitoring well installation (MW-7) at the Company Garage site (SHN, May 2005).

1.3 Geology and Hydrology

The PALCO Company Garage site is located on the south limb of the Eel River syncline on a fluvial terrace, approximately 1,000 feet southeast of the Eel River. Sedimentary deposits underlying the site consist of late Quaternary age alluvium deposited by the Eel River. According to the subsurface exploration logs for the piezometers and borings installed at the site, these deposits consist of medium-stiff to stiff clayey silt, which was moist to very moist and gray to yellowish brown in color.

Depth to groundwater ranges between 3 and 6 feet below grade at the project site. Additionally, a log pond, with a varying water surface elevation of approximately 132 feet (National Geodetic Vertical Datum [NGVD] 1929), is located approximately 100 feet northwest of the site. This log pond is presently assumed to act as a hydraulic barrier to groundwater movement from the source area toward downgradient receptors.

1.4 Objective and Scope of Work

The objective of the investigation was to collect data requested by the HCDEH at the February 6, 2006, meeting with PALCO at SHN, to further assess current site conditions.

The scope of work included the following items:

- Install 8 soil borings and collect one soil sample from each boring
- Install a temporary well point in each boring and collect a groundwater sample from each well point.
- Collect groundwater elevation data from all site wells, the log pond, and the temporary well
 points.
- Survey the well points for elevation.
- Prepare this report of findings.

2.0 Field Activities

2.1 Soil and Groundwater Sampling

On March 9, 2006, SHN supervised Fisch Drilling in the collection of soil and groundwater samples. Sample locations are shown on Figure 2. Soil samples were collected using the Geoprobe® Macro Core sampling system from eight borings (B-500 through B-507). One soil sample was collected from each boring for chemical analysis. Four soil samples were collected for grain size analysis. Borings were extended to a maximum of 14 feet Below Ground Surface (BGS). Samples were continuously collected in 4-foot sections. Following retrieval of the sampler, the plastic tube was removed from the sampler, and the selected sample aliquot was cut from the desired depth and sealed on both ends with Teflon® tape and plastic caps. Soils in the remaining sample tubes were used for soil descriptions. Each soil sample was labeled with the project name, project number, sample number, sample depth, sample time and date. All samples were placed in Ziploc® bags and stored in an iced cooler. Each soil sample was analyzed for constituents described in the "Laboratory Analysis" section. Sample handling, transport, and delivery to the laboratory were documented using chain-of-custody procedures.

For temporary well point construction, ten feet of ¾-inch diameter 0.010-inch slot Polyvinyl Chloride (PVC) screen and 5 feet of ¾-inch diameter PVC blank were inserted into the open boreholes. A small amount of #2/12 Monterey sand was installed around the screened interval of each well point, and bentonite chips were installed as a surface seal. The well points were constructed with screened intervals similar to site monitoring wells. At B-506 and B-507, gravel collapsing into the borehole prevented the installation of a PVC well point, so groundwater samples were collected using the Geoprobe® well point screen sampler. Groundwater was collected from each well point using new polyethylene tubing with a bottom mounted check valve and placed in laboratory-supplied containers. Each groundwater sample container was labeled with the project name, project number, sample number, sample time, and date and placed in an iced cooler. Each groundwater sample was analyzed for constituents described in the "Laboratory Analysis" section. Sample handling, transport, and delivery to the laboratory were documented using chain-of-custody procedures.

The PVC well points were allowed to sit overnight. On March 10, 2006, SHN collected depth to water measurements from the top of the temporary casing using an electrical conductivity sensor. Depth-to-water measurements were also taken from all site-monitoring wells. Prior to removing the temporary well points, the relative elevation of the top of casing were surveyed and tied into the elevation of MW-7 and the log pond measuring point.

On March 10, 2006, boreholes were backfilled with bentonite and capped at the surface to match the existing surface.

Field notes are included in Appendix A. Soil boring logs are included in Appendix B.

2.2 Laboratory Analysis

Each soil sample was analyzed for:

- Total Petroleum Hydrocarbons as Motor Oil (TPHMO), as Diesel (TPHD), and as Gasoline (TPHG) in general accordance with U.S. Environmental Protection Agency (EPA) Method No. 8015B.
- Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), and Methyl Tertiary-Butyl Ether (MTBE) in general accordance with EPA Method No. 8021B.

Each groundwater sample was analyzed for:

- TPHMO, TPHD, and TPHG in general accordance with EPA Method No. 8015B.
- BTEX, and MTBE in general accordance with EPA Method No. 8021B

Silica gel cleanup was not performed on any samples for analysis.

North Coast Laboratories of Arcata, California, performed the analyses. Four soil samples were submitted to SHN's material testing laboratory for grain size analysis in accordance with American Society for Testing and Materials (ASTM) D422.

2.3 Equipment Decontamination Procedures

All drilling and sampling equipment was cleaned prior to bringing it on site. All small equipment that required on-site cleaning was cleaned using the triple wash system. The equipment was first washed in a water solution containing Liquinox® cleaner, followed by a distilled water rinse, then by a second distilled water rinse.

2.4 Investigation-Derived Waste Management

All water produced during the well purging and sampling activities was temporarily stored on site in 5-gallon plastic buckets. The water was then placed into the wastewater collection system for treatment at the Scotia wastewater treatment plant. SHN documented the time, date, and quantity of water disposed. SHN discharged approximately 5 gallons of water into the Scotia wastewater collection system.

3.0 Groundwater Monitoring Results

3.1 Soil Analytical Results

Eight soil samples were submitted for laboratory analysis. No constituents of concern were detected in soil above the method detection limits (Table 1). The laboratory analytical report is included in Appendix C.

Table 1
Soil Analytical Results, March 9, 2006
PALCO Company Garage, Scotia, California
$(in ug/g)^1$

Sample Location and Depth (in feet)	TPHMO ²	TPHD ²	TPHG ²	B ³	T^3	E ³	X ³	MTBE ³
B-500 @ 7.5'	<104	<1.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<0.050
B-501 @ 7.5'	<10	<1.0	<1.0	< 0.0050	< 0.0050	<0.0050	<0.0050	<0.050
B-502 @ 6.5'	<10	<1.0	<1.0	< 0.0050	< 0.0050	< 0.0050	<0.0050	<0.050
B-503 @ 7.5'	<10	<1.0	<1.0	< 0.0050	< 0.0050	< 0.0050	<0.0050	<0.050
B-504 @ 5.5'	<10	<1.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<0.050
B-505 @ 8'	<10	<1.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<0.050
B-506 @ 7.5'	<10	<1.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<0.050
B-507 @ 6.5'	<10	<1.0	<1.0	<0.0050	< 0.0050	< 0.0050	< 0.0050	<0.050

- 1. ug/g: micrograms per gram
- 2. Total Petroleum Hydrocarbons as Motor Oil (TPHMO), as Diesel (TPHD), and as Gasoline (TPHG), analyzed in general accordance with EPA Method No. 8015B.
- 3. Benzene (B), Toluene (T), Ethylbenzene (E), Xylenes (X), and Methyl Tertiary-Butyl Ether (MTBE) analyzed in general accordance with EPA Method No. 8021B.
- 4. <: Denotes a value that is "less than" the method detection limit.

3.2 Groundwater Analytical Results

Groundwater analytical results are presented in Table 2 and summarized on Figure 3. TPHMO was detected in each groundwater sample. The laboratory noted that the samples did not have the peak pattern typical of fresh motor oil; however, the results reported represent the amount of material in the motor oil range. Low concentrations of TPHD were detected in the groundwater samples from well points B-503 and B-507. Samples analyzed for TPHMO and TPHD were not subjected to a silica gel cleanup. TPHG was not detected in any groundwater samples analyzed. Low concentrations of toluene were detected in the groundwater samples from well points B-502 and B-503. Low concentrations of total Xylenes were detected in the groundwater samples from well points B-502 and B-503. The laboratory analytical report is included in Appendix C.

Figure 3 depicts a summary of the March 9, 2006, groundwater analytical results.

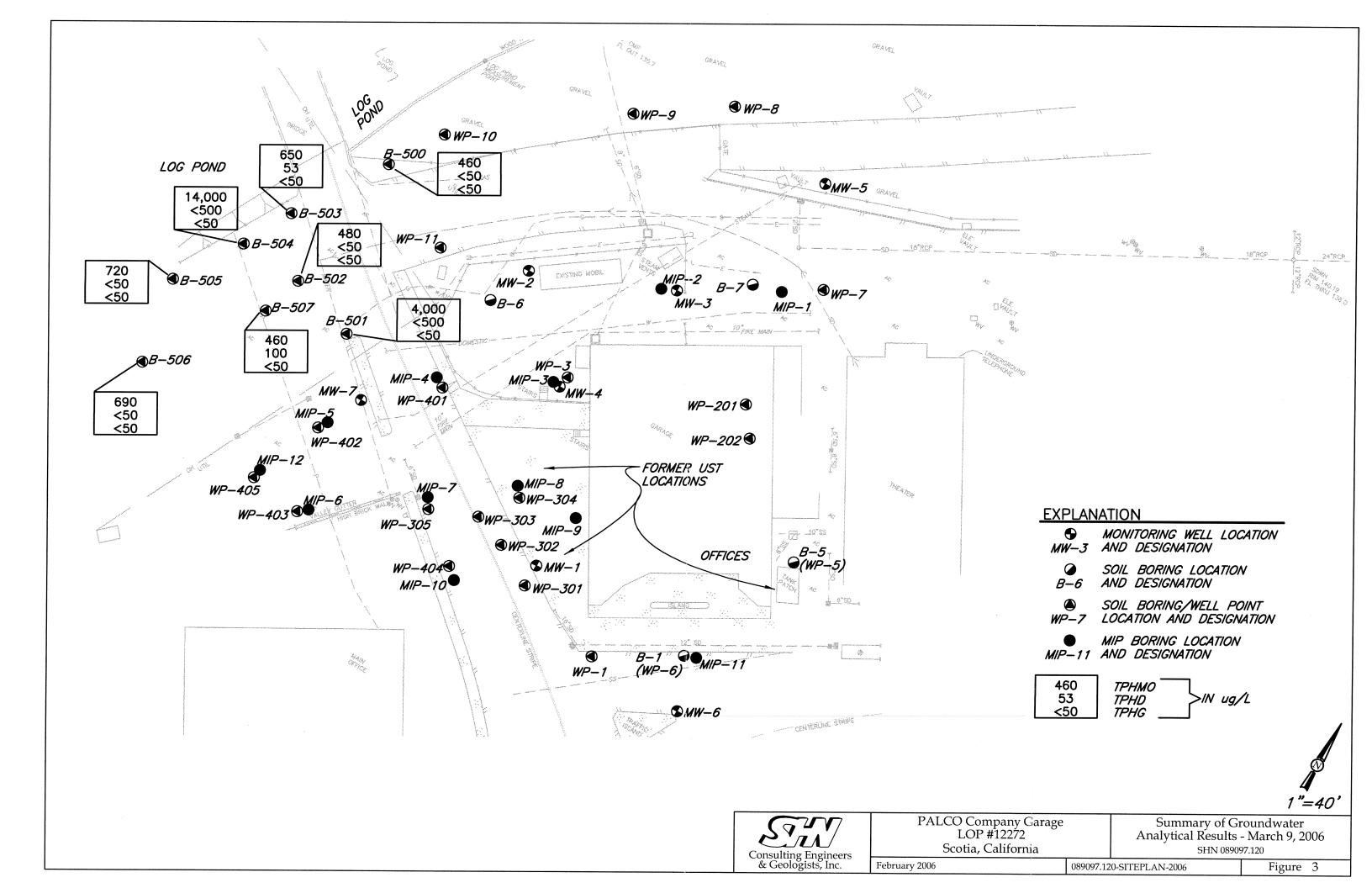


Table 2 Groundwater Analytical Results, March 9, 2006 PALCO Company Garage, Scotia, California (in ug/L)¹

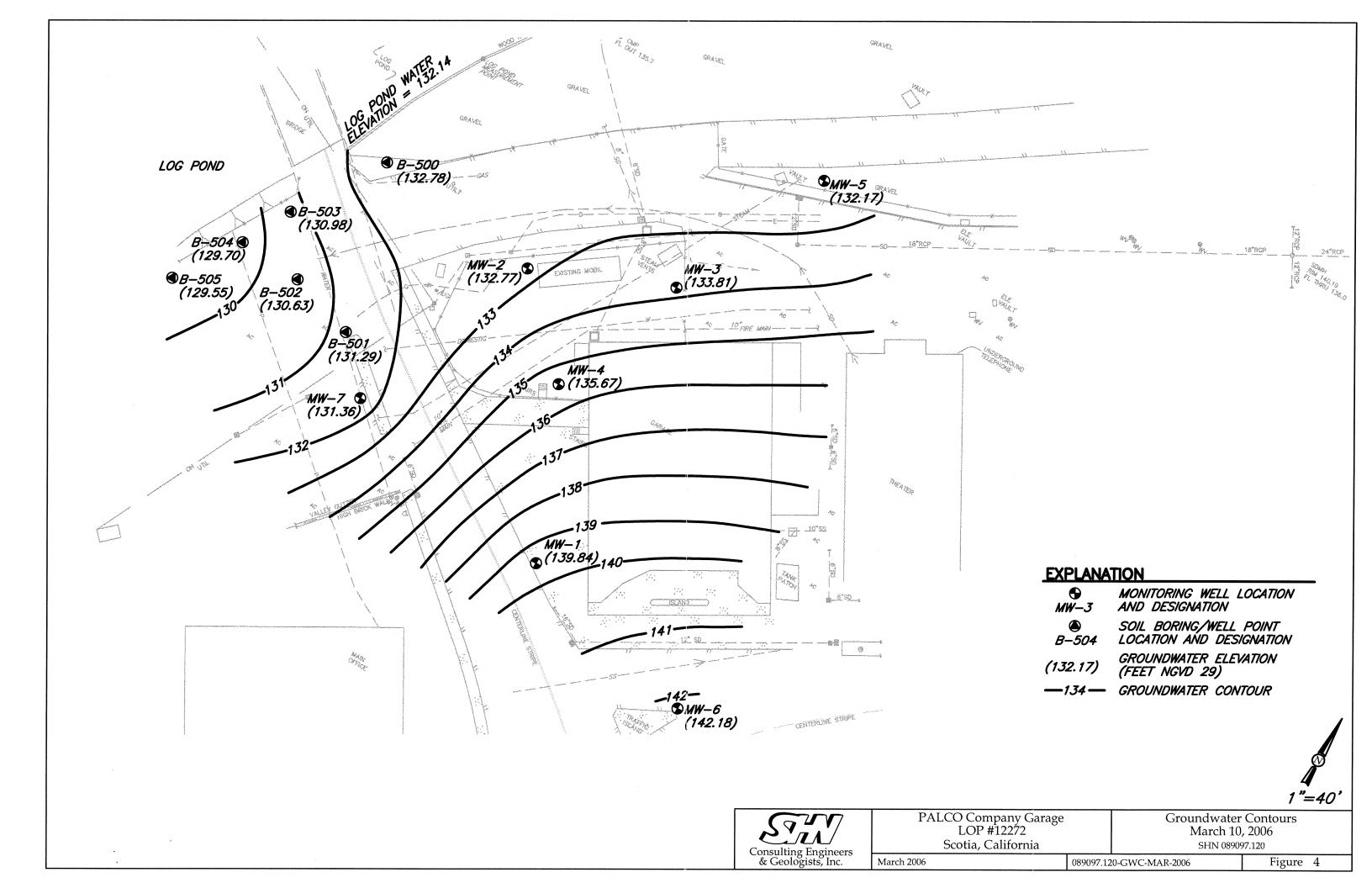
Sample Location	TPHMO ²	TPHD ²	TPHG ²	\mathbf{B}^3	T^3	E ³	X ³	MTBE ³
B-500	4604	<505	<50	<0.50	<0.50	< 0.50	<0.50	<3.0
B-501	4,0004	<500	<50	<0.50	<0.50	< 0.50	< 0.50	<3.0
B-502	4804	<50	<50	<0.50	0.96	< 0.50	0.96	<3.0
B-503	650 ⁴	536	<50	<0.50	0.82	< 0.50	< 0.50	<3.0
B-504	14,0004	< 500	<50	<0.50	< 0.50	< 0.50	< 0.50	<3.0
B-505	7204	<50	<50	<0.50	< 0.50	< 0.50	< 0.50	<3.0
B-506	690 ⁴	<50	<50	<0.50	< 0.50	< 0.50	< 0.50	<3.0
B-507	4604	1007	<50	<0.50	<0.50	< 0.50	< 0.50	<3.0

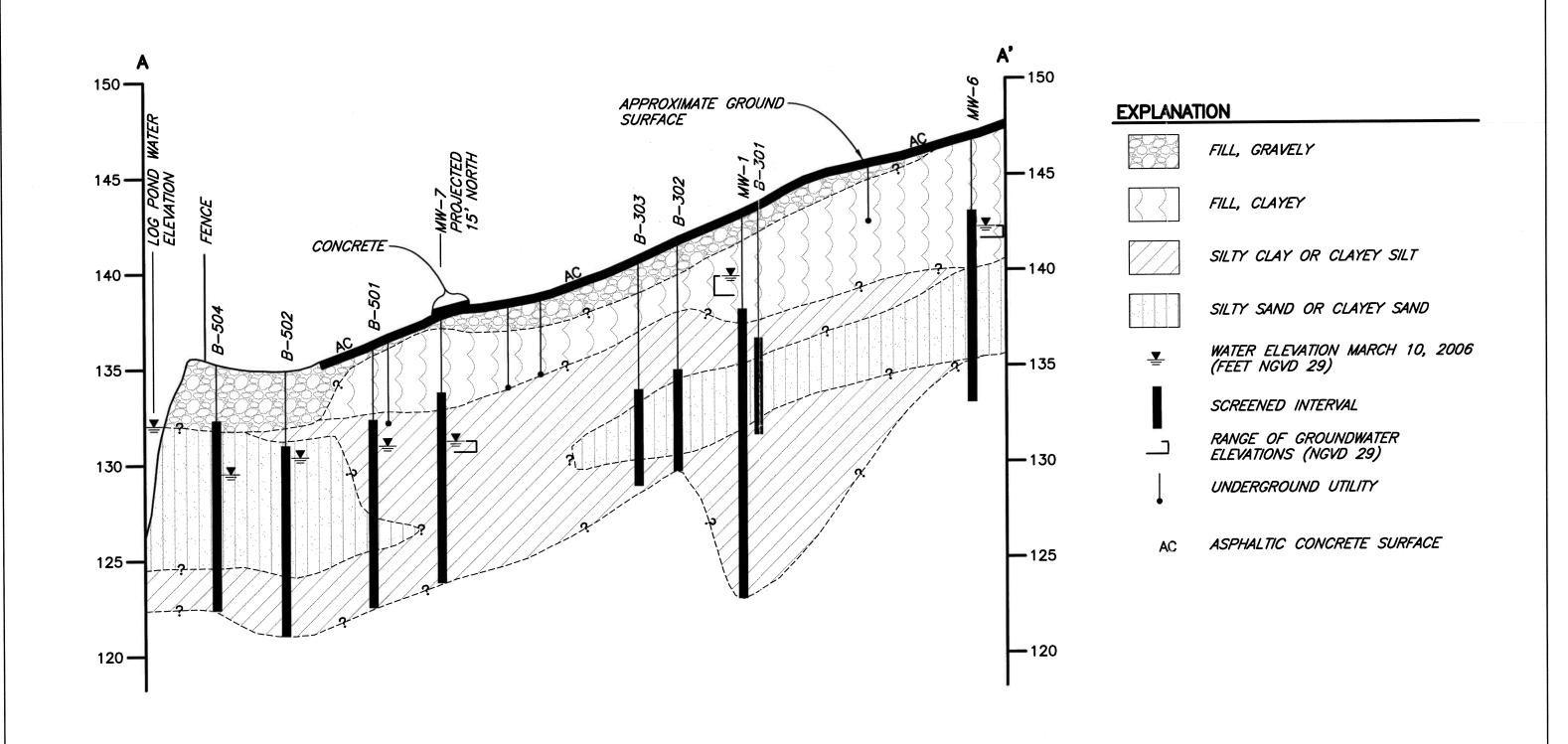
- 1. ug/L: micrograms per Liter
- 2. Total Petroleum Hydrocarbons as Motor Oil (TPHMO), as Diesel (TPHD), and as Gasoline (TPHG), analyzed in general accordance with EPA Method No. 8015B.
- 3. Benzene (B), Toluene (T), Ethylbenzene (E), Xylenes (X), and Methyl Tertiary-Butyl Ether (MTBE) analyzed in general accordance with EPA Method No. 8021B.
- 4. Does not have the typical pattern of fresh motor oil, however, the results reported represent the amount of material in the motor oil range.
- 5. <: Denotes a value that is "less than" the method detection limit.
- 6. Contains material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.
- 7. Contains material similar to degraded or weathered diesel oil.

3.3 Hydrogeology

Depth-to-groundwater measurements were collected on March 10, 2006. The direction of groundwater flow on March 10, 2006 was to the west-northwest with an approximate gradient of 0.07. Figure 4 shows groundwater contours on March 10, 2006. Groundwater elevations are presented in Table 3. Historic monitoring data are included in Appendix B.

With the exception of B-500, groundwater levels in the temporary well points (B-501 through B-505) were below the elevation of the log pond water surface. Therefore, it does not appear that the log pond is hydraulically connected to shallow groundwater downgradient from the company garage. At well point B-500, a large puddle was present nearby, and surface infiltration may have contributed to the higher water elevation. A generalized hydrogeologic cross section is shown as Figure 5.





SCALE: 1"=40' HORIZ 1"=5' VERT

	PALCO Company Garage	
STAN	LOP #12272	
Consulting Engineers & Geologists, Inc.	Scotia, California arch 2006	_

089097-120-SECT-AA

Figure 5

Table 3 Groundwater Elevations, March 10, 2006 PALCO Company Garage, Scotia, California														
Sample Location	Sample Location Measuring Point Elevation Depth-to-Water Groundwater Elevation (Feet NGVD 29) ¹ (Feet NGVD 29) ¹													
MW-1	142.64	2.80	139.84											
MW-2	137.66	4.89	132.77											
MW-3	138.29	4.48	133.81											
MW-4	139.74	4.07	135.67											
MW-5	136.00	3.83	132.17											
MW-6	146.95	4.77	142.18											
MW-7	137.69	6.33	131.36											
Log Pond Surface	134.49	2.35	132.14											
B-500	137.23	4.45	132.78											
B-501	138.74	7.45	131.29											
B-502	137.74	7.11	130.63											
B-503	137.36	6.38	130.98											
B-504	136.90	7.20	129.70											
B-505	136.84	7.29	129.55											
 Relative to NGVD 29 Below top of casing o 	(National Geodetic Vertical Datum 19 r measurement point	929)												

4.0 Discussion and Recommendations

No constituent of concern was detected above the method detection limits in any of the soil samples collected during this investigation.

TPHMO was detected in each groundwater sample collected from the temporary well points. The highest concentration was detected in well point B-504. At this well point, a large wood fragment was present at approximately 6 feet BGS, which is below the groundwater level at this location. Low concentrations of TPHD were detected in two groundwater samples collected from the temporary well points. The TPHMO and TPHD detected in groundwater samples may not be from petroleum hydrocarbons, but from naturally occurring carbon and/or wood debris present in site soils, which is eluting in the range of petroleum hydrocarbons.

TPHMO was analyzed for in groundwater samples from site monitoring wells MW-1 through MW-6 in March 2004, and from MW-7 in March 2005. TPHMO was only detected in monitoring well MW-3 (at a concentration of 230 ug/L) (SHN, May 2004 and May 2005). TPHMO has been detected in several groundwater samples from temporary well points installed at the site. A possible explanation for the difference in TPHMO concentrations (in groundwater samples from monitoring wells versus well points) may be due to the high amount of sediment present in groundwater samples collected from temporary well points, which may contain naturally occurring carbon which elutes in the range of petroleum hydrocarbons.

TPHG and benzene were not detected above the method detection limits in any groundwater samples collected from the temporary well points.

Based on the information presented above, the extent of contamination from the former USTs at the company garage site has been defined. The groundwater contamination does not appear to be impacting the log pond.

5.0 References Cited

- SHN Consulting Engineers & Geologists, Inc. (2000). December 1999 Subsurface Investigation Report of Findings, PALCO Company Garage, Scotia, CA, HCDEH LOP #12272. Eureka: SHN.
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- ---. (2003). Remedial Action Work Plan PALCO Company Garage, Scotia, California; LOP #12272. Eureka: SHN.
- ---.(May 2004). Report of Findings and First Quarter 2004 Groundwater Monitoring Report PALCO Company Garage, Scotia, California; LOP #12272. Eureka: SHN
- ---.(December 2004). Report of Findings for Additional Site Investigation PALCO Company Garage, Scotia, California; LOP #12272. Eureka: SHN.
- ---.(May 2005). Report of Findings and First Half 2005 Groundwater Monitoring Report, PALCO Company Garage, Scotia, California; LOP #12272. Eureka: SHN.

June 9, 2003, PALCO submitted the RAP.

March 6, 2003, PALCO submitted a Remedial Action Feasibility Study





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DAILIFI	ELD REPORT	Date: 3-9-06
Project Name	Client/Owner	DFR Sequence No.: /
PALCO CO. GARAGE	PAICO	Day Of Week: THURS
General Location Of Work	Owner/Client Representative	Project Engineer
SCOTIA, CA	ROE VOGT	M LAY
General Contractor FISC 1+		Supervisor
Type Of Work	Weather	K. Ruese
	RAIN	Technician
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		Date: 3-10-06
Project Name	Client/Owner	DFR Sequence No.:
PALCO CO. GARAGO	PALCO	Day Of Week: FRIDAY
General Location Of Work		Project Engineer
SCOTIAICA	POB VOGT	MO LAY
General Contractor	Contractors Onsite	Supervisor
FISCH		R. Ruesel
Type Of Work SURNEY/GW LEVELS/W.P. Dest-	Weather / SNOW	Technician C. FISHER
	979	C. MISHE
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Signature and Date	Copy given to:	Reported By:



812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

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Gener	al Lo	cation	Of W	ork			<u></u>	Ow	ner/C	lient F	Repres	entati	ve					Project Engineer Manty Lay					······································		
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Paleo Company Garage
089097.120
215 Man'06
C. Fishen



812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Groundwater Elevations

	Job No.: 089097.12	20	N	ame:	R RURZON /	C FISH of
	Client: PALCO		D	ate:	3-10-5	le .
	Location: PALCO C	Company Garage, Scot	ia, CA W	eather:	it to the	/SNOW
ع ا	Sample Location	Time of Reading	Top of Casin Elevation (feet) ん		Depth To Water (feet)	Water Surface Elevation (feet)
	MW-1	943	142.64		2.80	139.84
	MW-2	37	137.66		4.69	132.77
	MW-3	948	138.29		4.48	133.81
	MW-4	9:46	139.74		4.07	135.67
4, ا		931	136.00		3.83	132.17
2.1	7 MW-6	9 40	146.95		War Try	142-18
N	MW-7	953	137.69		6.33	131.36
,6	POND ELEVATION	930	134.49		2.35	132.14
	B-501	954	138.74		7.45	131.29
	B-502	958	137.74		7.11	30.63
	B-500	959	137.23		4.45	132.78
	B-503	1000	137.36		6.38	130 - 98
	B-504	1003	136,90		7.20	129.70
	B - 505	1004	136.84		7,29	129.55
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STAN

$oldsymbol{\mathcal{V}}$ Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

PROJ. NAME: PALCO Company Garage

PROJ. NUMBER: 089097.120

DRILLER: Fisch Drilling

DRILLING METHOD: GeoProbe **SAMPLER TYPE:** Macro Core

LOCATION: Scotia, CA

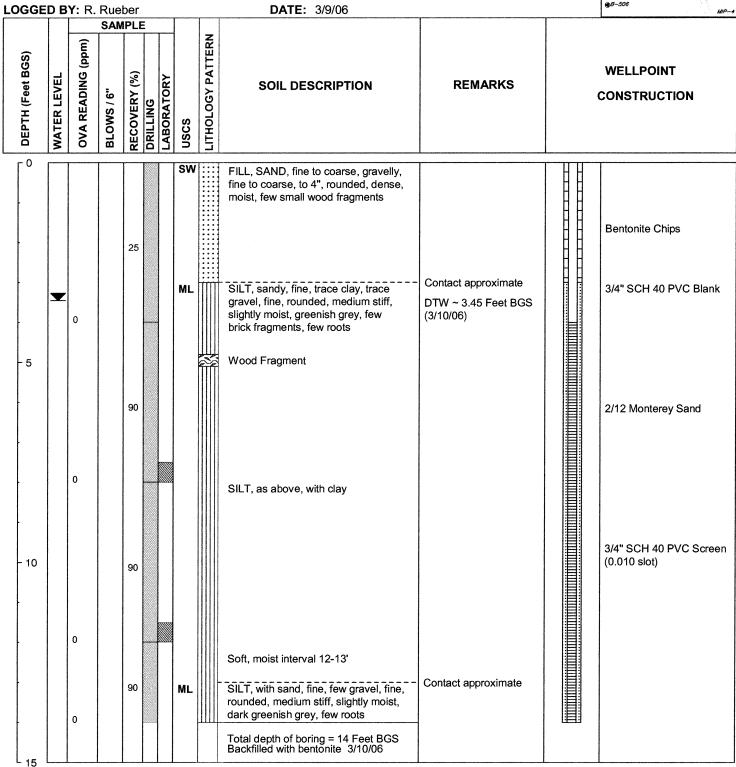
GROUND ELEVATION:--

DEPTH OF BORING/WELLPOINT:14.0 / 14.0 Feet BGS

DEPTH TO FIRST WATER: ~3.45 Feet BGS **SCREEN INTERVAL:** 4.0-14.0 Feet BGS

WELLPOINT LOG
B-500





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812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

PROJ. NAME: PALCO Company Garage

PROJ. NUMBER: 089097.120

DRILLER: Fisch Drilling

DRILLING METHOD: GeoProbe SAMPLER TYPE: Macro Core

LOCATION: Scotia, CA

GROUND ELEVATION:--

DEPTH OF BORING/WELLPOINT: 14.0 / 14.0 Feet BGS

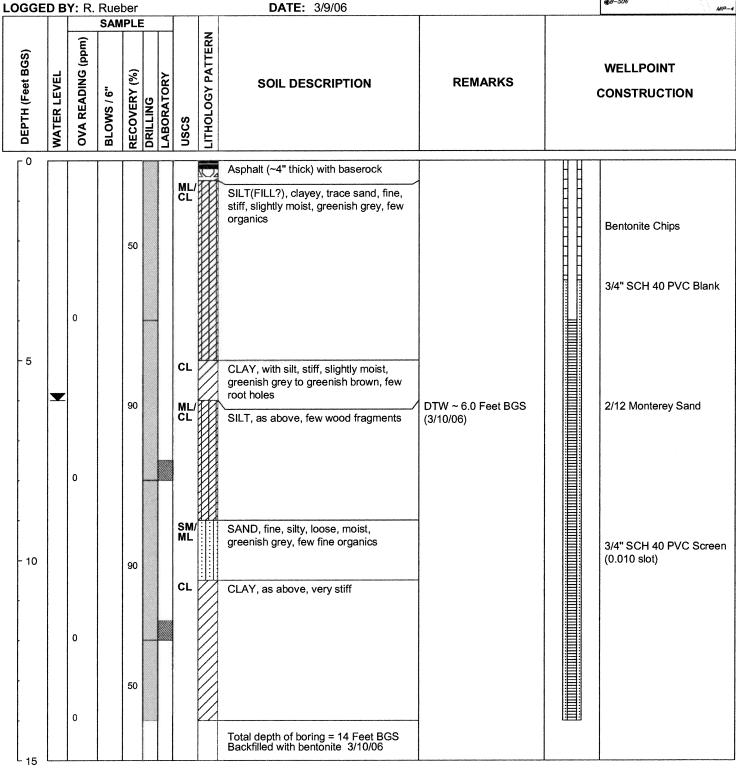
DEPTH TO FIRST WATER: ~6.0 Feet BGS SCREEN INTERVAL: 4.0-14.0 Feet BGS

DATE: 3/9/06



WELLPOINT LOG





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PROJ. NAME: PALCO Company Garage

PROJ. NUMBER: 089097.120

DRILLER: Fisch Drilling

DRILLING METHOD: GeoProbe SAMPLER TYPE: Macro Core

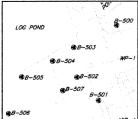
LOCATION: Scotia, CA

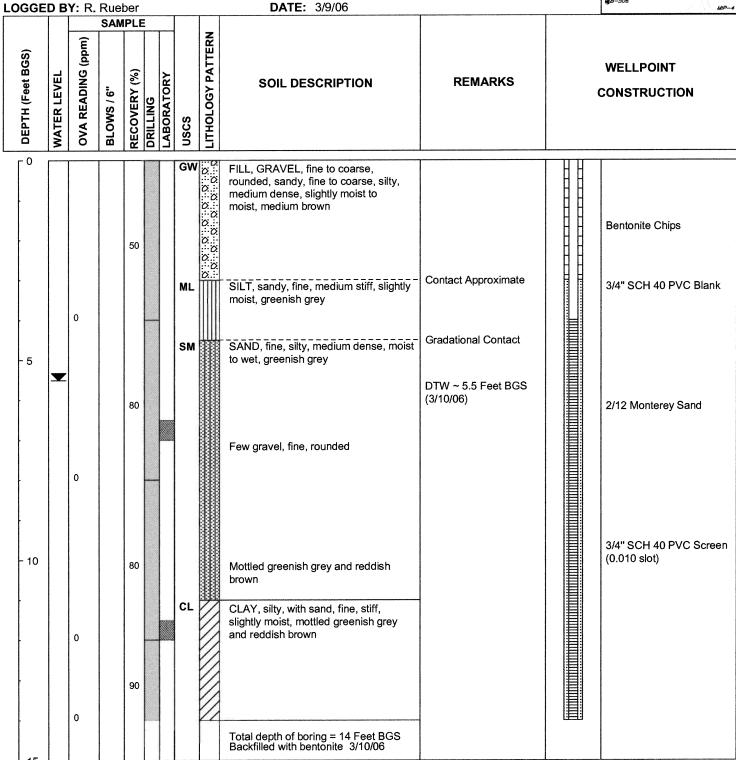
GROUND ELEVATION:--

DEPTH OF BORING/WELLPOINT: 14.0 / 14.0 Feet BGS

DEPTH TO FIRST WATER: ~5.5 Feet BGS SCREEN INTERVAL: 4.0-14.0 Feet BGS

WELLPOINT LOG B-502





STA

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PROJ. NAME: PALCO Company Garage

PROJ. NUMBER: 089097.120

DRILLER: Fisch Drilling

DRILLING METHOD: GeoProbe **SAMPLER TYPE:** Macro Core

LOCATION: Scotia, CA

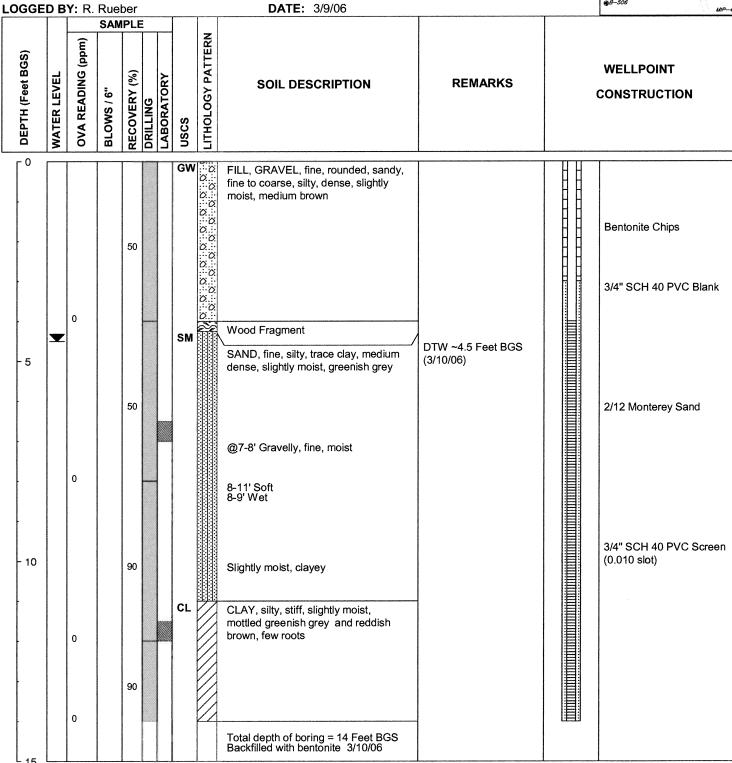
GROUND ELEVATION:--

DEPTH OF BORING/WELLPOINT:14.0 / 14.0 Feet BGS

DEPTH TO FIRST WATER: ~4.5 Feet BGS **SCREEN INTERVAL:** 4.0-14.0 Feet BGS

WELLPOINT LOG
B-503







Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

PROJ. NAME: PALCO Company Garage

PROJ. NUMBER: 089097.120

DRILLER: Fisch Drilling

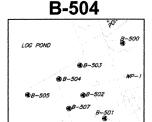
DRILLING METHOD: GeoProbe **SAMPLER TYPE:** Macro Core

LOCATION: Scotia, CA

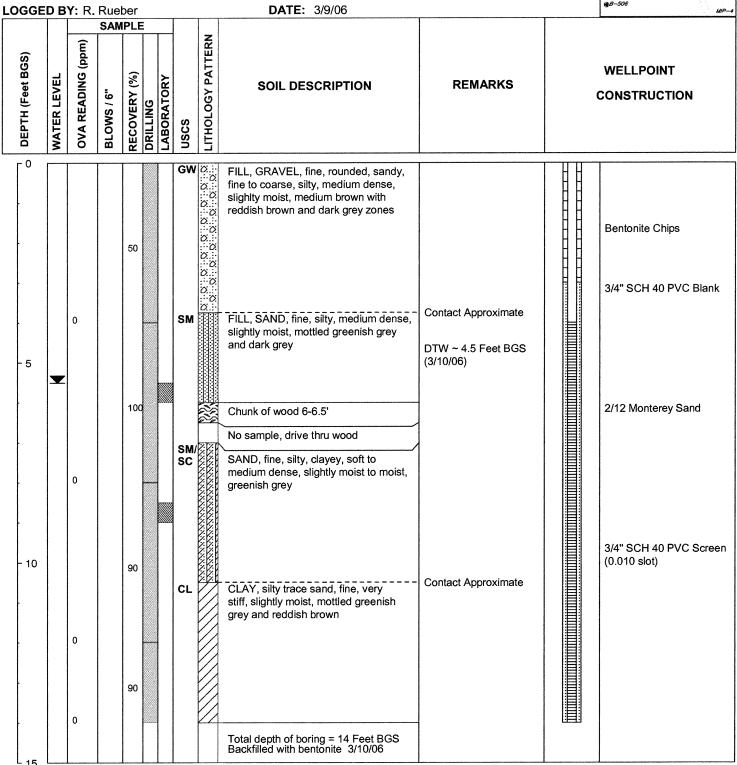
GROUND ELEVATION:--

DEPTH OF BORING/WELLPOINT: 14.0 / 14.0 Feet BGS

DEPTH TO FIRST WATER: ~5.5 Feet BGS **SCREEN INTERVAL:** 4.0-14.0 Feet BGS



WELLPOINT LOG



Consulting Engineers & Geologists, Inc. 812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

PROJ. NAME: PALCO Company Garage

LOCATION: Scotia, CA **PROJ. NUMBER:** 089097.120 **GROUND ELEVATION:--**

DRILLER: Fisch Drilling

DRILLING METHOD: GeoProbe SAMPLER TYPE: Macro Core

DEPTH OF BORING/WELLPOINT: 14.0 / 14.0 Feet BGS

DEPTH TO FIRST WATER: ~6.0 Feet BGS SCREEN INTERVAL: 4.0-14.0 Feet BGS



WELLPOINT LOG

LOGG	ED E	Y: R.	Rue	ber					DATE : 3/9/06			4 ,5−506 MiP~4
			SAN	IPLE	E							
DEPTH (Feet BGS)	WATER LEVEL	OVA READING (ppm)	BLOWS / 6"	RECOVERY (%)	DRILLING	LABORATORY	nscs	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS	(WELLPOINT CONSTRUCTION
Γ٥		Ι	T	Т		Г	l		FILL, GRAVEL, fine, sandy, fine to		ПП	
- 5	_	0		70				30000000	coarse, silty, medium dense, slightly moist, medium brown and dark grey SILT, clayey, stiff, slightly moist, mottled medium and reddish brown, with roots CLAY, silty, slightly moist, mottled medium grey and reddish brown, few roots	DTW ~ 6.0 Feet BGS		Bentonite Chips 3/4" SCH 40 PVC Blank
		0							No Recovery SAND, fine, silty, with clay, medium	(3/10/06)		2/12 Monterey Sand
- 10				?					dense, moist, medium grey CLAY, silty, trace sand, fine, stiff, slightly moist, mottled medium grey and reddish brown			3/4" SCH 40 PVC Screen (0.010 slot)
		0		?					Become sandy, medium stiff			
15									Total depth of boring = 14 Feet BGS Backfilled with bentonite 3/10/06			

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PROJ. NAME: PALCO Company Garage

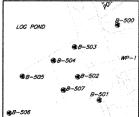
LOCATION: Scotia, CA PROJ. NUMBER: 089097.120 **GROUND ELEVATION:--**

DRILLER: Fisch Drilling

DEPTH OF BORING/WELLPOINT: 14.0 / 14.0 Feet BGS

DRILLING METHOD: GeoProbe SAMPLER TYPE: Macro Core

DEPTH TO FIRST WATER: ~7.5 Feet BGS SCREEN INTERVAL: 10.0-14.0 Feet BGS



WELLPOINT LOG

B-506

LOGGE			Rue						DATE: 3/9/06			⊕ B-506
	ĪĪ		SAN						3,0,00			na v
DEPTH (Feet BGS)	WATER LEVEL	OVA READING (ppm)	BLOWS / 6"	RECOVERY (%)	DRILLING	LABORATORY	nscs	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS		WELLPOINT CONSTRUCTION
- 5		0		40			CL	000000000	FILL, GRAVEL, fine to coarse, sandy, fine to coarse, silty, medium dense, slightly moist, medium brown CLAY, silty, trace sand, fine, stiff, slightly moist, mottled medium brown and reddish brown, few organics and roots	Contact Approximate @ 4' Color change to medium grey with few dark greenish mottles, very stiff		Stainless Steel Rod
- 10	∇	0		90			ML/		CLAY, silty, with sand, fine, stiff, slightly moist, mottled medium grey reddish brown, few roots SILT, sandy, fine, medium stiff, slightly moist to moist, mottled medium grey and reddish brown, few roots Total depth of boring = 12 Feet BGS	Contact Approximate Contact Approximate		Stainless Steel Retractable Screen (10- 14')
15									Total depth of boring = 12 Feet BGS Backfilled with bentonite 3/9/06		- w	

77 Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

PROJ. NAME: PALCO Company Garage

PROJ. NUMBER: 089097.120

DRILLER: Fisch Drilling

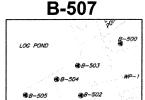
DRILLING METHOD: GeoProbe

LOCATION: Scotia, CA

GROUND ELEVATION:--

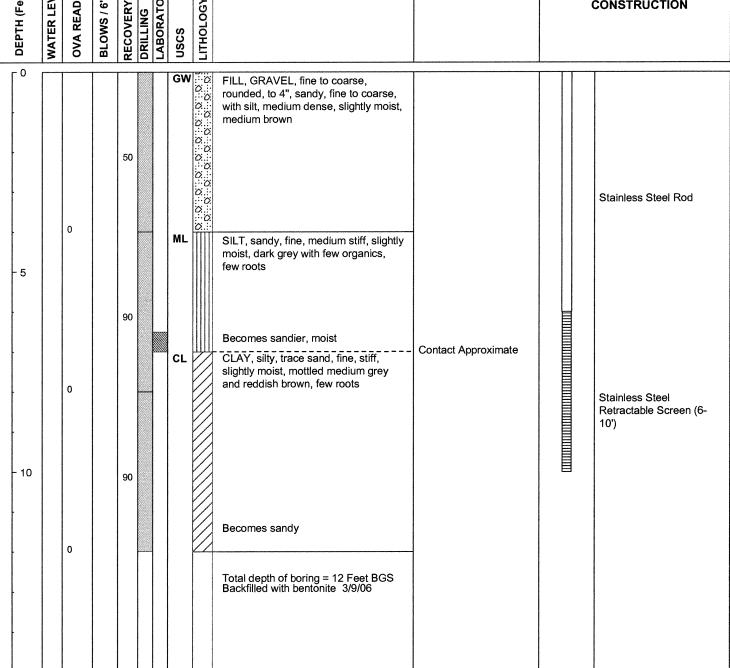
DEPTH OF BORING/WELLPOINT:12.0 / 10.0 Feet BGS

DEPTH TO FIRST WATER: --



WELLPOINT LOG

DRILLING WETHOD. Georiobe						DEFINITO FIRST WATER	@B-507	
SAMPLER TYPE: Macro Core						SCREEN INTERVAL: 6.0	B-501	
LOGGED BY: R. Rueber					DATE : 3/9/06			@B-506 MIP-4
	SAMPLE							
DEPTH (Feet BGS) WATER LEVEL	OVA READING (ppm) BLOWS / 6"	RECOVERY (%) DRILLING	LABORATORY	nscs	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
۲٥		10000	83	CIM	الزنزا		T	







March 16, 2006

Pacific Lumber-M P.O. Box 37 125 Main St

Scotia, CA 95565-0037

Attn: Bob Vogt / Environmental Service

RE: 089097.120, PALCO CO. GARAGE

Order No.: 0603278 Invoice No.: 56912 PO No.: M-75239

ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description				
01A	B-502 @ 6.5'				
02A	B-503 @ 7.5'				
03A	B-504 @ 5.5'				
04A	B-505 @ 8'				
05A	B-506 @ 7.5'				
06A	B-507 @ 6.5'				
07A	B-501 @ 7.5'				
A80	B-500 @ 7.5'				
09A	B-507				
09D	B-507				
10A	B-506				
10D	B-506				
11A	B-504				
11D	B-504				
12A	B-505				
12D	B-505				
13A	B-502				
13D	B-502				
14A	B-501				
14D	B-501				
15A	B-503				
15D	B-503				
16A	B-500				
16D	B-500				
14D 15A 15D 16A	B-501 B-503 B-500				

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wetweight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr. Laboratory Director

North Coast Laboratories, Ltd.

CLIENT:

Pacific Lumber-M

Project:

089097.120, PALCO CO. GARAGE

Lab Order:

0603278

CASE NARRATIVE

Date: 16-Mar-06

TPH as Diesel/Motor Oil - Water:

The laboratory control sample (LCS) recovery was below the lower acceptance limit for diesel. The laboratory control duplicate sample (LCSD) recovery was within the acceptable limits; therefore, the data were accepted.

Sample B-507 contains material similar to degraded or weathered diesel oil.

Sample B-503 contains material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

Samples B-504 and B-501 are being reported as not detected (ND) with a dilution for diesel oil due to matrix interference.

Samples B-507, B-506, B-504, B-505, B-502, B-501, B-503 and B-500 do not have the typical pattern of fresh motor oil. However, the results reported represent the amount of material in the motor oil range.

BTEX - Water:

The surrogate recoveries for the method blank and sample B-505 were below the lower acceptance limit. The response of the reporting limit standard was such that the analytes would have been detected even with the low recovery; therefore, the data were accepted.

The laboratory control sample (LCS) recovery was above the upper acceptance limit for MTBE. This recovery indicates that the sample results may be erroneously high. There were no detectable levels of the analyte in the samples; therefore, the data were accepted.

The relative percent difference (RPD) for the laboratory control samples was above the acceptance limit for MTBE. This indicates that the results could be variable. Since there were no detectable levels of the analyte in the samples, the data were accepted.

16-Mar-06

WorkOrder: 0603278

Client Sample ID: B-502 @ 6.5'

ANALYTICAL REPORT

Received: 3/9/06

Collected: 3/9/06 9:50

Lab ID: 0603278-01A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	Units	<u>DF</u>	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	3/13/06	3/13/06
Benzene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Toluene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Ethylbenzene	ND	0.0050	µg/g	1.0	3/13/06	3/13/06
m,p-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
o-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Surrogate: Cis-1,2-Dichloroethylene	96.1	71.8-135	% Rec	1.0	3/13/06	3/13/06

Test Name: TPH as Diesel/Motor Oil Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	Units	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	3/13/06	3/13/06
TPHC Motor Oil	ND	10	ца/а	1.0	3/13/06	3/13/06

Test Name: TPH as Gasoline Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	3/13/06	3/13/06

Client Sample ID: B-503 @ 7.5' Received: 3/9/06 Collected: 3/9/06 10:25

Lab ID: 0603278-02A

Test Name: BTEX Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	<u>Analyzed</u>
MTBE	ND	0.050	μg/g	1.0	3/13/06	3/13/06
Benzene	ND	0.0050	µg/g	1.0	3/13/06	3/13/06
Toluene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Ethylbenzene	ND	0.0050	µg/g	1.0	3/13/06	3/13/06
m,p-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
o-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Surrogate: Cis-1,2-Dichloroethylene	96.5	71.8-135	% Rec	1.0	3/13/06	3/13/06

Test Name: TPH as Diesel/Motor Oil Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	3/13/06	3/13/06
TPHC Motor Oil	ND	10	µg/g	1.0	3/13/06	3/13/06

Test Name: TPH as Gasoline Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	3/13/06	3/13/06

16-Mar-06

WorkOrder: 0603278

ANALYTICAL REPORT

Received: 3/9/06

Collected: 3/9/06 11:00

Lab ID: 0603278-03A

Client Sample ID: B-504 @ 5.5'

Test Name: BTEX

Reference: EPA 5035/EPA 8021B
110101 011001

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	3/13/06	3/13/06
Benzene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Toluene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Ethylbenzene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
m,p-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
o-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Surrogate: Cis-1,2-Dichloroethylene	97.8	71.8-135	% Rec	1.0	3/13/06	3/13/06

Test Name: TPH as Diesel/Motor Oil Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	Units	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	3/13/06	3/13/06
TPHC Motor Oil	ND	10	μg/g	1.0	3/13/06	3/13/06

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B Test Name: TPH as Gasoline

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\underline{\mathbf{DF}}$	Extracted	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	3/13/06	3/13/06

Received: 3/9/06 **Collected:** 3/9/06 11:30 Client Sample ID: B-505 @ 8'

Lab ID: 0603278-04A

Test Name: BTEX Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	3/13/06	3/13/06
Benzene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Toluene	ND	0.0050	µg/g	1.0	3/13/06	3/13/06
Ethylbenzene	ND	0.0050	µg/g	1.0	3/13/06	3/13/06
m,p-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
o-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Surrogate: Cis-1,2-Dichloroethylene	92.0	71.8-135	% Rec	1.0	3/13/06	3/13/06

Test Name: TPH as Diesel/Motor Oil Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	3/13/06	3/13/06
TPHC Motor Oil	ND	10	μg/g	1.0	3/13/06	3/13/06

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B Test Name: TPH as Gasoline

<u>Parameter</u>	Result	<u>Limit</u>	Units	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	3/13/06	3/13/06

16-Mar-06

WorkOrder: 0603278

Client Sample ID: B-506 @ 7.5'

ANALYTICAL REPORT

Received: 3/9/06

Collected: 3/9/06 12:00

Lab ID: 0603278-05A

Test Name: BTEX

Reference	EPA 5035/EPA 8021B
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<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	3/13/06	3/13/06
Benzene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Toluene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Ethylbenzene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
m,p-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
o-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/13/06
Surrogate: Cis-1,2-Dichloroethylene	92.8	71.8-135	% Rec	1.0	3/13/06	3/13/06

Test Name: TPH as Diesel/Motor Oil Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	Units	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	3/13/06	3/13/06
TPHC Motor Oil	ND	10	μg/g	1.0	3/13/06	3/13/06

Test Name: TPH as Gasoline Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	3/13/06	3/13/06

Client Sample ID: B-507 @ 6.5' Received: 3/9/06 Collected: 3/9/06 13:00

Lab ID: 0603278-06A

Test Name: BTEX Reference: EPA 5035/EPA 8021B

Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
ND	0.050	μg/g	1.0	3/13/06	3/14/06
ND	0.0050	μg/g	1.0	3/13/06	3/14/06
ND	0.0050	μg/g	1.0	3/13/06	3/14/06
ND	0.0050	μg/g	1.0	3/13/06	3/14/06
ND	0.0050	μg/g	1.0	3/13/06	3/14/06
ND	0.0050	μg/g	1.0	3/13/06	3/14/06
88.0	71.8-135	% Rec	1.0	3/13/06	3/14/06
	ND ND ND ND ND ND	ND 0.050 ND 0.0050 ND 0.0050 ND 0.0050 ND 0.0050 ND 0.0050	ND 0.050 μg/g ND 0.0050 μg/g	ND 0.050 μg/g 1.0 ND 0.0050 μg/g 1.0	ND 0.050 μg/g 1.0 3/13/06 ND 0.0050 μg/g 1.0 3/13/06

Test Name: TPH as Diesel/Motor Oil Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	3/13/06	3/13/06
TPHC Motor Oil	ND	10	μg/g	1.0	3/13/06	3/13/06

Test Name: TPH as Gasoline Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	3/13/06	3/14/06

16-Mar-06

WorkOrder: 0603278

Client Sample ID: B-501 @ 7.5'

ANALYTICAL REPORT

Received: 3/9/06

Collected: 3/9/06 8:20

Lab ID: 0603278-07A

Test Name: BTEX

<u>Parameter</u>	Result	<u>Limit</u>	Units	$\overline{\mathbf{DF}}$	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	3/13/06	3/14/06
Benzene	ND	0.0050	μg/g	1.0	3/13/06	3/14/06
Toluene	ND	0.0050	μg/g	1.0	3/13/06	3/14/06
Ethylbenzene	ND	0.0050	μg/g	1.0	3/13/06	3/14/06
m,p-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/14/06
o-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/14/06
Surrogate: Cis-1,2-Dichloroethylene	92.1	71.8-135	% Rec	1.0	3/13/06	3/14/06

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B Test Name: TPH as Diesel/Motor Oil

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	3/13/06	3/13/06
TPHC Motor Oil	ND	10	μg/g	1.0	3/13/06	3/13/06

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B Test Name: TPH as Gasoline

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	3/13/06	3/14/06

Received: 3/9/06 Collected: 3/9/06 7:45 Client Sample ID: B-500 @ 7.5'

Lab ID: 0603278-08A

Reference: EPA 5035/EPA 8021B Test Name: BTEX

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
MTBE	ND	0.050	μg/g	1.0	3/13/06	3/14/06
Benzene	ND	0.0050	μg/g	1.0	3/13/06	3/14/06
Toluene	ND	0.0050	μg/g	1.0	3/13/06	3/14/06
Ethylbenzene	ND	0.0050	μg/g	1.0	3/13/06	3/14/06
m,p-Xylene	ND	0.0050	μg/g	1.0	3/13/06	3/14/06
o-Xylene	ND	0.0050	µg/g	1.0	3/13/06	3/14/06
Surrogate: Cis-1,2-Dichloroethylene	82.4	71.8-135	% Rec	1.0	3/13/06	3/14/06

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B Test Name: TPH as Diesel/Motor Oil

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	μg/g	1.0	3/13/06	3/13/06
TPHC Motor Oil	ND	10	μg/g	1.0	3/13/06	3/13/06

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B Test Name: TPH as Gasoline

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	μg/g	1.0	3/13/06	3/14/06

16-Mar-06

WorkOrder: 0603278

Client Sample ID: B-507

ANALYTICAL REPORT

Received: 3/9/06

Reference: EPA 5030/EPA 8021B

Collected: 3/9/06 13:30

Lab ID: 0603278-09A

Test Name: BTEX

Test Maine: DIEX	Reference.							
Parameter Parameter	Result	<u>Limit</u>	Units	$\overline{\mathbf{DF}}$	Extracted	Analyzed		
MTBE	ND	3.0	μg/L	1.0		3/14/06		
Benzene	ND	0.50	μg/L	1.0		3/14/06		
Toluene	ND	0.50	μg/L	1.0		3/14/06		
Ethylbenzene	ND	0.50	μg/L	1.0		3/14/06		
m,p-Xylene	ND	0.50	μg/L	1.0		3/14/06		
o-Xylene	ND	0.50	μg/L	1.0		3/14/06		
Surrogate: Cis-1,2-Dichloroethylene	93.5	85-115	% Rec	1.0		3/14/06		

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	μg/L	1.0		3/14/06

Client Sample ID: B-507

Received: 3/9/06

Collected: 3/9/06 13:30

Lab ID: 0603278-09D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	100	50	μg/L	1.0	3/10/06	3/11/06
TPHC Motor Oil	460	170	μg/L	1.0	3/10/06	3/11/06

Client Sample ID: B-506

Received: 3/9/06

Collected: 3/9/06 12:30

Lab ID: 0603278-10A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
MTBE	ND	3.0	μg/L	1.0		3/14/06
Benzene	ND	0.50	μg/L	1.0		3/14/06
Toluene	ND	0.50	μg/L	1.0		3/14/06
Ethylbenzene	ND	0.50	μg/L	1.0		3/14/06
m.p-Xylene	ND	0.50	μg/L	1.0		3/14/06
o-Xylene	ND	0.50	μg/L	1.0		3/14/06
Surrogate: Cis-1,2-Dichloroethylene	94.2	85-115	% Rec	1.0		3/14/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter_	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	μg/L	1.0		3/14/06

16-Mar-06

WorkOrder: 0603278

ANALYTICAL REPORT

Client Sample ID: B-506

Received: 3/9/06

Collected: 3/9/06 12:30

Lab ID: 0603278-10D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	μg/L	1.0	3/10/06	3/11/06
TPHC Motor Oil	690	170	μg/L	1.0	3/10/06	3/11/06

Client Sample ID: B-504

Received: 3/9/06

Collected: 3/9/06 14:45

Lab ID: 0603278-11A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	Units	$\overline{\mathbf{DF}}$	Extracted	Analyzed
MTBE	ND	3.0	μg/L	1.0		3/14/06
Benzene	ND	0.50	μg/L	1.0		3/14/06
Toluene	ND	0.50	μg/L	1.0		3/14/06
Ethylbenzene	ND	0.50	μg/L	1.0		3/14/06
m,p-Xylene	ND	0.50	μg/L	1.0		3/14/06
o-Xylene	ND	0.50	μg/L	1.0		3/14/06
Surrogate: Cis-1,2-Dichloroethylene	89.8	85-115	% Rec	1.0		3/14/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	μg/L	1.0		3/14/06

Client Sample ID: B-504

Received: 3/9/06

Collected: 3/9/06 14:45

Lab ID: 0603278-11D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	500	μg/L	10	3/10/06	3/11/06
TPHC Motor Oil	14,000	1,700	μg/L	10	3/10/06	3/11/06

16-Mar-06

WorkOrder: 0603278

Client Sample ID: B-505

ANALYTICAL REPORT

Received: 3/9/06

Collected: 3/9/06 14:50

Lab ID: 0603278-12A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter Parame	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
MTBE	ND	3.0	μg/L	1.0		3/14/06
Benzene	ND	0.50	μg/L	1.0		3/14/06
Toluene	ND	0.50	μg/L	1.0		3/14/06
Ethylbenzene	ND	0.50	μg/L	1.0		3/14/06
m,p-Xylene	ND	0.50	μg/L	1.0		3/14/06
o-Xylene	ND	0.50	μg/L	1.0		3/14/06
Surrogate: Cis-1,2-Dichloroethylene	82.2	85-115	% Rec	1.0		3/14/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	μg/L	1.0		3/14/06

Client Sample ID: B-505

Received: 3/9/06

Collected: 3/9/06 14:50

Lab ID: 0603278-12D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\underline{\mathbf{DF}}$	Extracted	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	50	μg/L	1.0	3/10/06	3/11/06
TPHC Motor Oil	720	170	μg/L	1.0	3/10/06	3/11/06

Client Sample ID: B-502

Received: 3/9/06

Collected: 3/9/06 14:35

Lab ID: 0603278-13A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter Parame	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
MTBE	ND	3.0	μg/L	1.0		3/14/06
Benzene	ND	0.50	μg/L	1.0		3/14/06
Toluene	0.96	0.50	μg/L	1.0		3/14/06
Ethylbenzene	ND	0.50	μg/L	1.0		3/14/06
m,p-Xylene	0.96	0.50	μg/L	1.0		3/14/06
o-Xylene	ND	0.50	μg/L	1.0		3/14/06
Surrogate: Cis-1,2-Dichloroethylene	99.1	85-115	% Rec	1.0		3/14/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\overline{\mathbf{DF}}$	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	μg/L	1.0		3/14/06

16-Mar-06

WorkOrder: 0603278

ANALYTICAL REPORT

Received: 3/9/06

Collected: 3/9/06 14:35

Lab ID: 0603278-13D

Client Sample ID: B-502

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	Units	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	μg/L	1.0	3/10/06	3/11/06
TPHC Motor Oil	480	170	μg/L	1.0	3/10/06	3/11/06

Client Sample ID: B-501

Lab ID: 0603278-14A

Received: 3/9/06

Collected: 3/9/06 14:25

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	Units	\mathbf{DF}	Extracted	Analyzed
MTBE	ND	3.0	μg/L	1.0		3/14/06
Benzene	ND	0.50	μg/L	1.0		3/14/06
Toluene	ND	0.50	μg/L	1.0		3/14/06
Ethylbenzene	ND	0.50	μg/L	1.0		3/14/06
m,p-Xylene	ND	0.50	μg/L	1.0		3/14/06
o-Xylene	ND	0.50	μg/L	1.0		3/14/06
Surrogate: Cis-1.2-Dichloroethylene	93.1	85-115	% Rec	1.0		3/14/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	50	μg/L	1.0		3/14/06

Client Sample ID: B-501

Received: 3/9/06

Collected: 3/9/06 14:25

Lab ID: 0603278-14D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	$\underline{\mathbf{DF}}$	Extracted	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	500	μg/L	10	3/10/06	3/11/06
TPHC Motor Oil	4,000	1,700	μg/L	10	3/10/06	3/11/06

16-Mar-06

WorkOrder: 0603278

Client Sample ID: B-503

ANALYTICAL REPORT

Received: 3/9/06

Collected: 3/9/06 14:40

Lab ID: 0603278-15A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	Units	<u>DF</u>	Extracted	Analyzed
MTBE	ND	3.0	μg/L	1.0		3/14/06
Benzene	ND	0.50	μg/L	1.0		3/14/06
Toluene	0.82	0.50	μg/L	1.0		3/14/06
Ethylbenzene	ND	0.50	μg/L	1.0		3/14/06
m,p-Xylene	ND	0.50	μg/L	1.0		3/14/06
o-Xylene	ND	0.50	μg/L	1.0		3/14/06
Surrogate: Cis-1,2-Dichloroethylene	96.3	85-115	% Rec	1.0		3/14/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	50	μg/L	1.0		3/14/06

Client Sample ID: B-503

Received: 3/9/06

Collected: 3/9/06 14:40

Lab ID: 0603278-15D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	<u>Analyzed</u>
TPHC Diesel (C12-C22)	53	50	μg/L	1.0	3/10/06	3/11/06
TPHC Motor Oil	650	170	μg/L	1.0	3/10/06	3/11/06

Client Sample ID: B-500

Received: 3/9/06

Collected: 3/9/06 14:20

Lab ID: 0603278-16A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

<u>Parameter</u>	Result	<u>Limit</u>	Units	<u>DF</u>	Extracted	Analyzed
MTBE	ND	3.0	μg/L	1.0		3/14/06
Benzene	ND	0.50	μg/L	1.0		3/14/06
Toluene	ND	0.50	μg/L	1.0		3/14/06
Ethylbenzene	ND	0.50	μg/L	1.0		3/14/06
m,p-Xylene	ND	0.50	μg/L	1.0		3/14/06
o-Xylene	ND	0.50	μg/L	1.0		3/14/06
Surrogate: Cis-1,2-Dichloroethylene	90.5	85-115	% Rec	1.0		3/14/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter Parame	Result	<u>Limit</u>	Units	<u>DF</u>	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	μg/L	1.0		3/14/06

16-Mar-06

WorkOrder: 0603278

ANALYTICAL REPORT

Received: 3/9/06

Collected: 3/9/06 14:20

Lab ID: 0603278-16D

Client Sample ID: B-500

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	Result	<u>Limit</u>	<u>Units</u>	<u>DF</u>	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	μg/L	1.0	3/10/06	3/11/06
TPHC Motor Oil	460	170	μg/L	1.0	3/10/06	3/11/06

North Coast Laboratories, Ltd.

CLIENT: Pacific Lumber-M

Work Order: 0603278

Project: 089097.120, PALCO CO. GARAGE

QC SUMMARY REPORT

Date: 16-Mar-06

Method Blank

Sample ID MB-15348	Batch ID: 15348	Test Code: BTXES	BTXES	Units: µg/g		Analysis	Date 3/13/0	Analysis Date 3/13/06 8:53:52 PM	Prep Da	Prep Date 3/13/06	
Client ID:		Run ID:	ORGC8_060313B	13B		SeqNo:	578585				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	QN	0.050									
Benzene	Q	0.0050									
Toluene	Q	0.0050									
Ethylbenzene	QN	0.0050									
m,p-Xylene	Q	0.0050									
o-Xylene	QN	0.0050									
Cis-1,2-Dichloroethylene	0.965	0.10	1.00	0	96.5%	72	135	0			
Sample ID MB-3/14/06	Batch ID: R40311	Test Code: BTXEW	BTXEW	Units: µg/L		Analysis	Date 3/14/0	Analysis Date 3/14/06 6:28:54 PM	Prep Date	ite	
Client ID:		Run ID:	ORGC8_060314B	314B		SeqNo:	579221				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	QN	3.0									
Benzene	QN	0.50									
Toluene	Q	0.50									
Ethylbenzene	Q	0.50									
m,p-Xylene	Q	0.50									
o-Xylene	Q	0.50									
Cis-1,2-Dichloroethylene	0.840	0.10	1.00	0	84.0%	82	115	0			S
Sample ID MB-15348	Batch ID: 15348	Test Code:	Test Code: TPHCGS	Units: µg/g		Analysis	5 Date 3/13/0	Analysis Date 3/13/06 8:53:52 PM	Prep Da	Prep Date 3/13/06	
Client ID:		Run ID:	ORGC8_060313A	313A		SeqNo:	578542	8			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	0.5754	1.0			Andrews Andrew						7

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

0603278 Work Order:

089097.120, PALCO CO. GARAGE Project:

QC SUMMARY REPORT

Method Blank

Sample ID MB-3/14/06	Batch ID: R40310	Test Code:	e: TPHCGW	Units: µg/L		Analysis	Date 3/14	Analysis Date 3/14/06 6:28:54 PM	Prep Date	Ð	
Client ID:		Run ID:	ORGC8_060314A	14A		SeqNo:	579197	97			
Analyte	Result	Limit	SPK value	SPK value SPK Ref Val	% Rec	LowLimit	HighLimit	% Rec LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit	Qual
TPHC Gas (C6-C14)	QN	50									
Sample ID MB-15343	Batch ID: 15343	Test Code:	Test Code: TPHDMS	Units: µg/g		Analysis	Date 3/13	Analysis Date 3/13/06 1:43:43 PM	Prep Dat	Prep Date 3/13/06	
Client ID:		Run ID:	ORGC7_060313A	13A		SeqNo:	578408	80:			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	% Rec LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	0.2043 ND	1.0									_
Sample ID MB-15332	Batch ID: 15332	Test Code	Test Code: TPHDMW	Units: µg/L		Analysis	Date 3/10	Analysis Date 3/10/06 1:04:56 PM	Prep Dat	Prep Date 3/10/06	
Client ID:		Run ID:	ORGC7_060310A	10A		SedNo:	577774	74			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	QN QN	50 170									

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:

North Coast Laboratories, Ltd.

Pacific Lumber-M CLIENT:

0603278 Work Order: Project:

089097.120, PALCO CO. GARAGE

Laboratory Control Spike

QC SUMMARY REPORT

Date: 16-Mar-06

Sample ID LCS-15348	Batch ID: 15348	Test Code:	BTXES	Units: µg/g		Analysis	Date 3/13/	Analysis Date 3/13/06 4:54:53 PM	Prep Da	Prep Date 3/13/06	
Client ID:		Run ID:	ORGC8_060313B	138		SeqNo:	578582	32			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	0.4049	0.050	0.400	0	101%	75	124	0			
Benzene	0.05342	0.0050	0.0500	0	107%	8	128	0			
Toluene	0.05593	0.0050	0.0500	0	112%	82	126	0			
Ethylbenzene	0.05413	0.0050	0.0500	0	108%	8	126	0			
m,p-Xylene	0.1046	0.0050	0.100	0	105%	8	130	0			
o-Xylene	0.05353	0.0050	0.0500	0	107%	2	125	0			
Cis-1,2-Dichloroethylene	1.09	0.10	1.00	0	109%	72	135	0			
Sample ID LCSD-15348	Batch ID: 15348	Test Code: BTXES	BTXES	Units: µg/g		Analysis	Date 3/13	Analysis Date 3/13/06 5:29:15 PM	Prep Da	Prep Date 3/13/06	
Client ID:		Run ID:	ORGC8_060313B	13B		SeqNo:	578583	83			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	0.3994	0.050	0.400	0	99.8%	75	124	0.405	1.37%	15	
Benzene	0.05373	0.0050	0.0500	0	107%	80	128	0.0534	0.583%	15	
Toluene	0.05552	0.0050	0.0500	0	111%	85	126	0.0559	0.724%	15	
Ethylbenzene	0.05484	0.0050	0.0500	0	110%	80	126	0.0541	1.32%	15	
m,p-Xylene	0.1050	0.0050	0.100	0	105%	8	130	0.105	0.311%	15	
o-Xylene	0.05363	0.0050	0.0500	0	107%	\$	125	0.0535	0.189%	15	
Cis-1,2-Dichloroethylene	1.07	0.10	1.00	0	107%	72	135	1.09	1.36%	15	

ND - Not Detected at the Reporting Limit Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

0603278 Work Order:

089097.120, PALCO CO. GARAGE Project:

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID LCS-06164	Batch ID: R40311	Test Code: BTXEW	BTXEW	Units: µg/L		Analysis	Date 3/14/	Analysis Date 3/14/06 3:32:52 PM	Prep Date	ıte	
Client ID:		Run ID:	ORGC8_060314B	14B		SeqNo:	579219	6			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	46.92	3.0	40.0	0	117%	85	115	0			S
Benzene	5.253	0.50	5.00	0	105%	82	115	0			
Toluene	5.352	0.50	5.00	0	107%	82	115	0			
Ethylbenzene	5.330	0.50	5.00	0	107%	82	115	0			
m.p-Xylene	10.72	0.50	10.0	0	107%	82	115	0			
o-Xylene	5.380	0.50	5.00	0	108%	82	115	0			
Cis-1,2-Dichloroethylene	1.11	0.10	1.00	0	111%	82	115	0			
Sample ID LCSD-06164	Batch ID: R40311	Test Code: BTXEW	BTXEW	Units: µg/L		Analysis	Date 3/15	Analysis Date 3/15/06 5:52:11 AM	Prep Date	ate	
Client ID:		Run ID:	ORGC8_060314B	314B		SeqNo:	579243	43			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	37.45	3.0	40.0	0	93.6%	85	115	46.9	22.4%	15	œ
Benzene	5.078	0.50	5.00	0	102%	82	115	5.25	3.39%	15	
Toluene	5.161	0.50	5.00	0	103%	82	115	5.35	3.64%	15	
Ethylbenzene	5.116	0.50	5.00	0	102%	85	115	5.33	4.10%	15	
m.p-Xylene	10.28	0.50	10.0	0	103%	85	115	10.7	4.11%	15	
o-Xylene	5.136	0.50	5.00	0	103%	85	115	5.38	4.64%	15	
Cis-1,2-Dichloroethylene	1.01	0.10	1.00	0	101%	82	115	1.11	10.2%	15	
Sample ID LCS-15348-G	Batch ID: 15348	Test Code	Test Code: TPHCGS	Units: µg/g		Analysis	5 Date 3/13	Analysis Date 3/13/06 6:37:30 PM	Prep D	Prep Date 3/13/06	
Client ID:		Run ID:	ORGC8_060313A	313A		SeqNo:	578539	39			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	12.07	1.0	10.0	0	121%	102	128	0			

ND - Not Detected at the Reporting Limit Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

0603278 Work Order:

089097.120, PALCO CO. GARAGE Project:

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID LCSD-15348-G	Batch ID: 15348	Test Code: TPHCGS	TPHCGS	Units: µg/g		Analysis	Date 3/13/0	Analysis Date 3/13/06 7:11:34 PM	Prep Da	Prep Date 3/13/06	
Client ID:		Run ID:	ORGC8_060313A	13A		SeqNo:	578540				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit RPD Ref Val	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	12.14	1.0	10.0	0	121%	102	128	12.1	0.548%	15	
Sample ID LCS-06165	Batch ID: R40310	Test Code: TPHCGW	TPHCGW	Units: µg/L		Analysis	Date 3/14/0	Analysis Date 3/14/06 4:44:22 PM	Prep Date	ıte	
Client ID:		Run ID:	ORGC8_060314A	14A		SeqNo:	579195				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	534.7	50	200	0	107%	82	115	0			
Sample ID LCSD-06165	Batch ID: R40310	Test Code:	le: TPHCGW	Units: µg/L		Analysis	Date 3/15/0	Analysis Date 3/15/06 6:26:12 AM	Prep Date	ate	
Client ID:		Run ID:	ORGC8_060314A	114A		SeqNo:	579213				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	526.8	50	200	0	105%	82	115	535	1.48%	15	
Sample ID LCS-15343	Batch ID: 15343	Test Code:	Test Code: TPHDMS	Units: µg/g		Analysis	Date 3/13/0	Analysis Date 3/13/06 11:43:18 AM	Prep Da	Prep Date 3/13/06	
Client ID:		Run ID:	ORGC7_060313A	313A		SedNo:	578406				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	7.639	1.0	10.0	0 0	76.4% 96.0%	02	130	0 0			
Sample ID LCSD-15343	Batch ID: 15343	Test Code:	Test Code: TPHDMS	Units: µg/g		Analysis	Date 3/13/0	Analysis Date 3/13/06 12:03:21 PM	Prep Da	Prep Date 3/13/06	
Client ID:		Run ID:	ORGC7_060313A	313A		SeqNo:	578407				
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	7.985	1.0	10.0	00	79.8%	07	130 130	7.64 19.2	4.43% 2.43%	15	

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

0603278 Work Order:

089097.120, PALCO CO. GARAGE

Project:

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Laboratory Control Spike

Sample ID LCS-15332	Batch ID: 15332	Test Code:	Test Code: TPHDMW	Units: µg/L		Analysis	Analysis Date 3/10/06 11:43:45 AM	:43:45 AM	Prep Date	Prep Date 3/10/06	
Client ID:		Run ID:	ORGC7_060310A	10A		SeqNo:	577772				
Analyte	Result	Limit	SPK value	SPK value SPK Ref Val	% Rec	LowLimit	% Rec LowLimit HighLimit RPD Ref Val	Ref Val	%RPD	%RPD RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	355.3 1,026	50 170	1,000	0 0	71.1%	72	124	0			တ
Sample ID LCSD-15332 Client ID:	Batch ID: 15332	Test Code: Run ID:	Test Code: TPHDMW Un Run ID: ORGC7_060310A	Units: µg/L 10A		Analysis SeqNo:	Analysis Date 3/10/06 12:03:59 PM SeqNo: 577773	::03:59 PM	Prep Dat	Prep Date 3/10/06	
Analyte	Result	Limit	SPK value	SPK value SPK Ref Val	% Rec	LowLimit	LowLimit HighLimit RPD Ref Val	Ref Val	%RPD	%RPD RPDLimit	Qual
TPHC Diesel (C12-C22) TPHC Motor Oil	386.6 1,055	50 170	500	00	77.3%	72	124 139	355 1,030	8.44% 2.76%	15 15	

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:



Chain of Custody

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			LABORATORY NUMBER:
Attention: 505 COCT	ATIVE → U\(71	TAT: \$\Begin{array}{cccccccccccccccccccccccccccccccccccc
Results & Invoice to:	C SEKA	VV	☐ STD (2–3 Wk) ☐ Other:
Address: PO POX 37	384	· · · · · · · · · · · · · · · · · · ·	PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES
TO THE TOP I	NEK		REPORTING REQUIREMENTS: State Forms
Phone:	/─>	7	Preliminary: EAX Verhal By: / /
Copies of Report to: INCOME AND	CON	-	Final Report: FAX \(\text{Verbal} \) Verbal \(\text{D} \) Verbal \(\text{Verbal} \)
Sampler (Sign & Print):		**************************************	CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl;
	<u></u>		3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG;
PROJECT INFORMATION	SIS	2	6-500 ml BG; 7-1 L BG; 8-1 L cg; 9-40 ml VOA;
Project Number: つくらのファンスの	() VIX		10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tuhe: 14—other
Project Name: THICL CO SALFIGE	NA A		DPECEDVATIVE CODES: 0 UNO 14 UCL 0 USO 1
	*		

Purch	Purchase Order Number:				H-3	71		d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₃ O ₂ Cl; g—
LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	As SANOTRAN	W.		SAMPLE CONDITION/SPECIAL IN
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	6 5000 5		John Com		×	X		
				Den.				
	RELINQUISHED BY (Sign & Print)		DATE/TIME	<u> </u>	REC	RECEIVED BY (Sign)	DATE/TIMI	DATE/TIME SAMPLE DISPOSAL

NSTRUCTIONS

- '		CHAIN OF CUSTODY SEALS Y/N/NA	SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand
DATE/TIME			
Y (Sign)	20 E		
RECEIVED BY (Sign)		اد	
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DATE/TIME	ş**-,		v
	10/6/		
RELINQUISHED BY (Sign & Print)			

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

Chain of Custody

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LABORATORY NUMBER:

<u></u>	"Floris" of	[]				TAT: □ 24 Hr □ 48 Hr ⊕3 Day □ 5–7 Day
Address:	77	PRESERVA	40V			☐ STD (2–3 Wk) ☐ Other:
Phone: Copies of Report to:	NE PURSON -S	CONTAINER	7W ()/,			. REPORTING REQUIREMENTS: State Forms □ Preliminary: FAX □ Verbal □ By: / / /
Sampler (Sign & Print):	1803		A X			CONTAINER CODES: 1—'/2 gal. pl; 2—250 ml pl; 3—500 ml pl; 4—11 Najgene: 5—250 ml BG.
PROJECT II	PROJECT INFORMATION	SISATY	03 ११४ ८७/५			6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other
Project Name: F.C.O. Purchase Order Number:	10. SACASP	NA	ADH DWH			PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H ₂ SO ₄ ; d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₃ O ₂ Cl; g—other
LAB ID SAMPLE ID	DATE TIME M	MATRIX*	N II II			SAMPLE CONDITION/SPECIAL INSTRUCTIONS
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RELINQUISHED BY (Sign & Print)	& Print) DATE/TIME		RECEIVED BY (Sign)	(Sign)	DATE/TIME	SAMPLE DISPOSAL
S. Mar	3/9/06	Ż		Americana Caraca		∠ NCL Disposal of Non-Contaminated ☐ Return ☐ Pickup
			>			CHAIN OF CUSTODY SEALS Y/N/NA
						SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

STAT

CONSULTING ENGINEERS & GEOLOGISTS, INC.

812 W. Wabash Eureka, CA 95501-2138 Tel: 707/441-8855 FAX: 707/441-8877 E-mail: shninfo@shn-engr.com

MATERIALS TEST	ING	LA	\BC	RA	TO	RY													ong					·
RECEIVING AND S JOB NAME RETURN RESULTS TO TOTAL NUMBER OF	СН	ED	ULI	NG	OF	TE	EST	S					JC)B#	0	80	10		7.	12	0,			
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RETURN RESULTS TO	E	201	74A	>	DA.	TE C	СОМ	PLE	TEL	3	-31.	-0/	_ D/	ATE	REC	OR	DED	<u> </u>	. ~ .	2/		16		
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% SAND	MOISTURE DENSITY	UNCONFINED COMPRESSION	USDA TEXTURAL ANALYSIS	IS 3"	0.4 to 1	8	ENT	ΥTI)EX	ASTM	CAL TRANS CURVE (CT-216)	COMPACTION CHECK POINT	100			SULFATE SOUNDNESS	SPECIFIC GRAVITY		*		*		gs.2	
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812 W. Wabash Eureka, CA 95501-2138 Tel: 707/441-8855 FAX: 707/441-8877 E-mail: shninfo@shn-engr.com

PROJECT NAME:

Palco Garage

SAMPLE ID: B-500@ 11.5

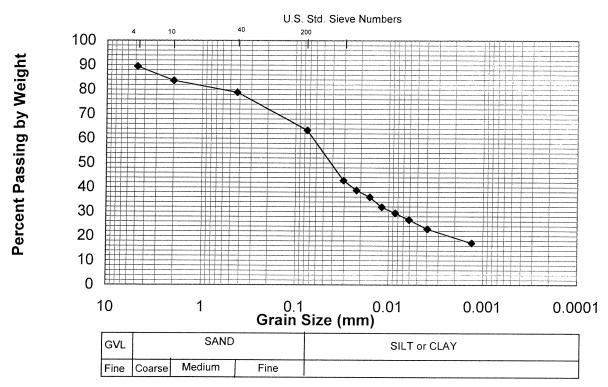
PROJECT NUMBER:

089097.120

LAB SAMPLE #:

6-184

SIEVE	#4	#10	#40	#200								
SIEVE SIZE (mm)	4.75	2.00	0.425	0.075	0.0306	0.0222	0.0159	0.0119	0.0085	0.0061	0.0039	0.0013
PERCENT PASSING	89.4	83.6	78.8	63.3	42.7	38.6	35.9	31.8	29.4	26.6	22.8	17.1





812 W. Wabash Eureka, CA 95501-2138 Tel: 707/441-8855 FAX: 707/441-8877 E-mail: shninfo@shn-engr.com

PROJECT NAME: SAMPLE ID:

Palco Garage

B-502 @ 11.5

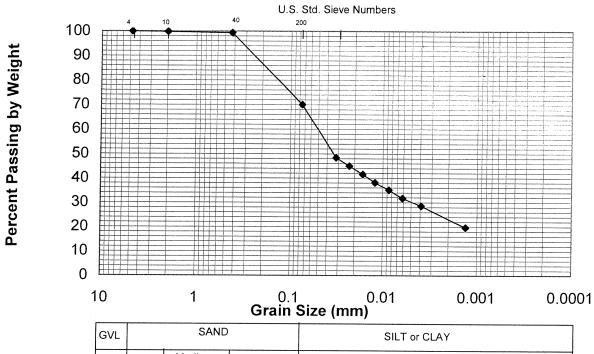
PROJECT NUMBER:

089097.120

LAB SAMPLE #:

6-185

SIEVE	#4	#10	#40	#200								
SIEVE SIZE (mm)	4.75	2.00	0.425	0.075	0.0318	0.0228	0.0164	0.0121	0.0086	0.0062	0.0039	0.0013
PERCENT PASSING	100.0	99.8	99.3	70.0	48.3	44.9	41.5	38.1	35.0	31.6	28.5	19.6



GVL		SAND		SILT or CLAY
Fine	Coarse	Medium	Fine	



812 W. Wabash Eureka, CA 95501-2138 Tel: 707/441-8855 FAX: 707/441-8877 E-mail: shninfo@shn-engr.com

PROJECT NAME:

SAMPLE ID:

Palco Garage

B-503 @ 11.5

PROJECT NUMBER:

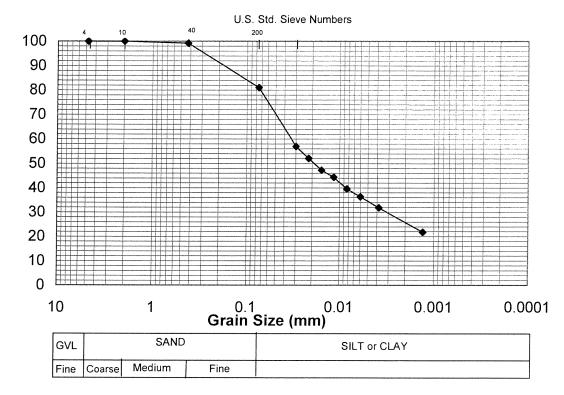
089097.120

LAB SAMPLE #:

6-186

SIEVE	#4	#10	#40	#200								
SIEVE SIZE (mm)	4.75	2.00	0.425	0.075	0.0300	0.0217	0.0158	0.0115	0.0083	0.0060	0.0038	0.0013
PERCENT PASSING	100.0	100.0	99.2	81.0	56.9	52.1	47.2	44.3	39.5	36.3	31.8	21.8







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PROJECT NAME:

Palco Garage

SAMPLE ID: B-504 @ 8.5

PROJECT NUMBER:

089097.120

LAB SAMPLE #:

6-187

SIEVE	#4	#10	#40	#200								
SIEVE SIZE (mm)	4.75	2.00	0.425	0.075	0.0267	0.0195	0.0142	0.0105	0.0077	0.0056	0.0036	0.0013
PERCENT PASSING	100.0	100.0	99.8	95.4	77.8	72.9	68.0	63.3	56.8	51.8	45.6	32.1



